Project Title	Funding	Institution
Upper motor neuron plasticity in the MeCP2-duplication syndrome of autism	$62,500	Baylor College of Medicine
Understanding the basic neurobiology of Pitt-Hopkins syndrome	$60,000	The University of Alabama at Birmingham
Underlying mechanisms in a cerebellum-dependent model of autism	$60,000	Harvard Medical School
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	$147,806	Case Western Reserve University
Translational regulation of adult neural stem cells	$396,944	University of Wisconsin - Madison
TMLHE deficiency and a carnitine hypothesis for autism	$60,000	Baylor College of Medicine
The role of UBE3A in autism	$312,501	Harvard Medical School
The role of MeCP2 in Rett syndrome	$382,858	University of California, Davis
The role of intracellular metabotropic glutamate receptor 5 at the synapse	$13,400	Washington University in St. Louis
The role of genetics in communication deficits in autism spectrum disorders	$60,000	University of Pennsylvania
The microRNA pathway in translational regulation of neuronal development	$352,647	University of Massachusetts Medical School
The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism	$0	Children's Memorial Hospital, Chicago
Synaptic phenotype, development, and plasticity in the fragile X mouse	$395,134	University of Illinois at Urbana Champaign
Study of fragile X mental retardation protein in synaptic function and plasticity	$317,077	University of Texas Southwestern Medical Center
Studying Rett and Fragile X syndrome in human ES cells using TALEN technology	$0	Whitehead Institute for Biomedical Research
Sex differences in early brain development; Brain development in Turner syndrome	$155,873	University of North Carolina at Chapel Hill
Role of Sema7A in functional organization of neocortex	$423,750	Mount Sinai School of Medicine
Role of intracellular mGluR5 in fragile X syndrome and autism	$75,000	Washington University in St. Louis
Revealing protein synthesis defects in fragile X syndrome with new chemical tools	$340,520	Stanford University
Regulation of cortical critical periods in a mouse model of autism	$60,000	Northwestern University
Regulation of 22q11 genes in embroyonic and adult forebrain (supplement)	$24,262	George Washington University
Regulation of 22q11 genes in embroyonic and adult forebrain	$308,631	George Washington University
Quantitative proteomic approach towards understanding and treating autism	$75,000	Emory University
Probing the neural basis of social behavior in mice	$62,500	Massachusetts Institute of Technology
Probing synaptic receptor composition in mouse models of autism	$124,998	Boston Children's Hospital
Probing a monogenic form of autism from molecules to behavior	$0	Stanford University
Predicting phenotypic trajectories in Prader-Willi syndrome	$310,752	Vanderbilt University Medical Center
Pleiotropic roles of dyslexia genes in neurodevelopmental language impairments	$42,232	Yale University
Physiological studies in a human stem cell model of 15q duplication syndrome	$60,000	University of Connecticut
Pathophysiology of MECP2 spectrum disorders (Career Development Award Proposal)	$179,981	Baylor College of Medicine
Olfactory abnormalities in the modeling of Rett syndrome	$351,575	Johns Hopkins University

Project Title	Funding	Institution
Novel candidate mechanisms of fragile X syndrome	$92,448	Yale University
New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	$419,095	Dana-Farber Cancer Institute
Neurobiology of RAI1, the causal gene for Smith-Magenis syndrome	$155,380	Stanford University
Neurobiological mechanism of 15q11-13 duplication autism spectrum disorder	$380,625	Beth Israel Deaconess Medical Center
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	$94,903	University of Washington
Nav1.1 channels, neural circuits, and autism	$10,213	University of Washington
Multigenic basis for autism linked to 22q13 chromosomal region	$125,000	Hunter College of the City University of New York (CUNY) jointly with Research Foundation of CUNY
Mouse models of human autism spectrum disorders: Gene targeting in specific brain regions	$400,000	University of Texas Southwestern Medical Center
Modulation of fxr1 splicing as a treatment strategy for autism in fragile X syndrome	$0	Stanford University
MicroRNAs in synaptic plasticity and behaviors relevant to autism	$131,220	Massachusetts General Hospital
Mesocorticolimbic dopamine circuitry in mouse models of autism	$436,362	Stanford University
MeCP2 modulation of BDNF signaling: Shared mechanisms of Rett and autism	$314,059	University of Alabama at Birmingham
Mechanisms of synapse elimination by autism-linked genes	$434,883	University of Texas Southwestern Medical Center
Mechanisms of motor skill learning in the fragile X mouse model	$308,138	University of Nebraska Medical Center
Mechanisms of mGluR5 function and dysfunction in mouse autism models	$406,760	University of Texas Southwestern Medical Center
Mechanism of UBE3A imprint in neurodevelopment	$34,439	University of California, Davis
Making the connection between autism, serotonin and hedgehog signaling	$125,635	Medical Research Council-National Institute for Medical Research
L-type calcium channel regulation of neuronal differentiation	$33,002	Stanford University
Longitudinal MRI study of brain development in fragile X	$901,844	Stanford University
Language development in fragile X syndrome	$584,381	University of California, Davis
In-vivo imaging of neuronal structure and function in a reversible mouse model for autism.	$0	Baylor College of Medicine
Investigation of protocadherin-10 in MEF2- and FMRP-mediated synapse elimination	$53,942	University of Texas Southwestern Medical Center
Investigating the homeostatic role of MeCP2 in mature brain	$35,832	Baylor College of Medicine
Identification of targets for the neuronal E3 ubiquitin ligase PAM	$0	Massachusetts General Hospital
Grammatical development in boys with fragile X syndrome and autism	$148,500	University of Wisconsin - Madison
Genotype-phenotype relationships in fragile X families	$612,413	University of California, Davis
Genetic rescue of fragile X syndrome in mice by targeted deletion of PIKE	$0	Albert Einstein College of Medicine of Yeshiva University
Genetic and developmental analyses of fragile X mental retardation protein	$438,391	Vanderbilt University Medical Center

Project Title	Funding	Institution
Genetically defined stem cell models of Rett and fragile X syndrome	$350,000	Whitehead Institute for Biomedical Research
Functional circuit disorders of sensory cortex in ASD and RTT	$254,976	University of Pennsylvania
Functional and anatomical recovery of synaptic deficits in a mouse model of Angelman Syndrome	$56,000	University of North Carolina at Chapel Hill
Fragile X syndrome target analysis and its contribution to autism	$134,477	The Rockefeller University
Emergence and stability of autism in fragile X syndrome (supplement)	$87,314	University of South Carolina
Emergence and stability of autism in fragile X syndrome	$358,000	University of South Carolina
Elucidation and rescue of amygdala abnormalities in the Fmr1 mutant mouse model of fragile X syndrome	$150,000	George Washington University
Dysregulation of protein synthesis in fragile X syndrome	$1,117,731	National Institutes of Health
Dysregulation of mTOR signaling in fragile X syndrome (supplement)	$72,034	Albert Einstein College of Medicine of Yeshiva University
Dysregulation of mTOR signaling in fragile X syndrome	$415,000	Albert Einstein College of Medicine of Yeshiva University
Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome	$278,656	University of Texas Southwestern Medical Center
Cortactin and spine dysfunction in fragile X	$32,875	University of California, Irvine
Coordinated control of synapse development by autism-linked genes	$0	University of Texas Southwestern Medical Center
Bi-directional regulation of Ube3a stability by cyclic AMP-dependent kinase	$60,000	University of North Carolina at Chapel Hill
BDNF and the restoration of synaptic plasticity in fragile X and autism	$470,063	University of California, Irvine
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	$149,881	King's College London
A stem cell based platform for identification of common defects in autism spectrum disorders	$0	The Scripps Research Institute - California
A longitudinal MRI study of brain development in fragile X syndrome	$610,416	University of North Carolina at Chapel Hill
Allelic choice in Rett syndrome	$390,481	Winifred Masterson Burke Medical Research Institute
A family-genetic study of autism and fragile X syndrome	$751,420	Northwestern University
Activity-dependent phosphorylation of MeCP2	$177,055	Harvard Medical School
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	$149,958	Boston Children's Hospital
Abnormal network dynamics and "learning" in neural circuits from Fmr1-/- mice	$192,500	University of California, Los Angeles
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	$300,000	Columbia University